



UNITED STAT: DEPARTMENT OF COMMERCE Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20291 Q34367-1

APPLICATION NUMBER	FILING DATE	34M1 FIRST HAMED APPLICANT	ATTY, DOCKET NO.
SUCURIE MIN	N ZINN MACP	EAK & SEAS	
2100 PENNSYLVANIA AVENUE NW WASHINGTON DC 20037-3202			EXAMINER
WASHINGTON	DC 20037-32	102	3407
			ART UNIT 01/26/28
			2412
			3 - 17- 1
			DATE MAILED:

	This is a communication from the examiner in charge of your application. COMMISSIONER OF PATENTS AND TRADEMARKS					
	OFFICE ACTION SUMMARY					
	Responsive to communication(s) filed on					
	This action is FINAL.					
	Since this application is in condition for allowance except for formal matters, prosect accordance with the practice under <i>Ex parte Quayle</i> , 1935 D.C. 11; 453 O.G. 213.					
the	hortened statutory period for response to this action is set to expire	month(s), or thirty days, in the period for response will cause tained under the provisions of 37 CFR				
Dis	sposition of Claims					
М	Claim(s)	is/are pending in the application.				
ኧ	Of the above claim(s)	is/are withdrawn from consideration.				
	Claim(s)	is/are allowed.				
区	Claim(s)	is/are objected to.				
	Claim(s)a					
	Claim(s)					
Ap	oplication Papers					
	See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.					
	The drawing(s) filed onis/are obje	is approved disapproved.				
	The proposed drawing correction, filed on	is approved disapproved				
	The specification is objected to by the Examiner.					
L	The oath or declaration is objected to by the Examiner.					
Pr	riority under 35 U.S.C. § 119					
×	Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(o).				
	All Some* None of the CERTIFIED copies of the priority documen	s have been				
	received.	6,469				
	received in Application No. (Series Code/Serial Number)					
	*Certified copies not received:					
	Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e)					
A	Attachment(s)					
ħ	Notice of Reference Cited, PTO-892					
7	Information Disclosure Statement(s), PTO-1449, Paper No(s).					
	Interview Summary, PTO-413					
	Notice of Draftperson's Patent Drawing Review, PTO-948					
-	Notice of Informal Patent Application, PTO-152					

-SEE OFFICE ACTION ON THE FOLLOWING PAGES-

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DETAILED ACTION

1) Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In line 9 of the claim, "the valve" lacks antecedent basis. In line 9, "the ideal isentropic flow" is vague and indefinite.

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- 2) The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kelley et al in view of Zingg. The patent to Kelley et al discloses a gas flow control device (17) connected to a tubing for use in oil wells producing by continuous gas-lift. The gas flow control device lacks having a nozzle restrictor in the housing to reduce the gas pressure flowing through the control device. The patent to Zingg teaches the use of a nozzle restrictor (16) having a curved inlet portion, a smooth straight intermediate portion, and a smooth, outwardly tapered conical shaped outlet portion, see Figure 1. Zingg teaches that the nozzle restrictor can be used in wells to restrict the pressure of the gas flowing therethrough, see col. 1, lines 47-49 and col. 4, lines 4-17. In view of the teaching of Zingg, it would have been obvious to one of ordinary skill in the art at

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the time of the invention to have modified the device of Kelley et al to include a nozzle having a curved inlet portion, a smooth straight intermediate portion, and a smooth, outwardly tapered conical shaped outlet portion to reduce the pressure of the gas flowing through the gas-lift device.

3) The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 3 is rejected under 35 U.S.C. 102(b) as being anticipated by Troy.

The patent to Troy discloses a flow restrictor (38) connected to a tubing (10). The restrictor includes a curved inlet portion, a smooth straight intermediate portion, and a smooth, outwardly tapered conical shaped portion. The recitation of "gas flow control device" and "for use in oil wells producing continuous gas-lift" in claim 3 of the instant application is considered to be intended use and is given no patentable weight.

4) Any inquiry concerning this communication should be directed to KEVIN LEE at telephone number (703) 308-1025. The AU3407 fax number is (703) 308-7765.

JANUARY 16, 1998

PRIMARY EXAMINER
GROUP 3400

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